# Physics 212 – Physics for Science and Engineering II

Section 2 101 Lewis Hall, Tuesdays and Thursdays, 8:00 – 9:15 AM

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## **Office Hours:**

WHEN: Tu-Th 10:00-12:00
WHERE: Tuesday: Physics Tutoring Room, Lewis Hall Thursday: Kennon Observatory, Room 1
My main office is Room 1025, NCPA.
If you need to see me outside of office hours, please make an appointment.
I am glad to work with you over the phone or by email.

## Textbook:

*Fundamentals of Physics*, 7<sup>th</sup> *Ed.*, Halliday, Resnick, and Walker We will cover Chapters 21-36.

## Grading:

The grades are based on the following:

20 % each	1 Final Exam, 2 Midterm Exams		
15 % total	Homework Assignments (Bi-weekly)		
	The worst two homework scores are not counted.		
20 % total	Quizzes (Weekly – except Exam weeks)		
	The worst two quiz scores are not counted.		
5 %	Class Participation		
	Students will be called on in class. You should be ready to respond to		
	simple questions on the lecture material.		

For each homework assignment, a subset of problems will be singled out for detailed grading. Extra credit problems may be assigned on occasion. Homework assignments will be posted on the Blackboard site in the afternoon on Tuesdays and Thursdays.

100 - 87.5	Α
87.5 - 70.0	В
70.0 - 62.5	С
62.5 - 50.0	D
<50.0	F

#### **Preparation:**

Learning any subject requires seeing it from many different viewpoints. One view is given in the lectures, the homework is another view, and the textbook can be considered a third. For the lectures to be useful, the student should have some familiarity with the subject matter beforehand. *Read the chapters before the lecture. Be familiar with the terminology* so that you can recognize the subjects when they are introduced. This will help you get more out of the lectures. *Also, students may get asked simple questions about the lecture material as part of the class participation grade.* 

In this class, the goal is to make you technically competent at solving physics problems. This means that the mathematical framework of the subject will be stressed over the conceptual aspects. I believe that conceptual understanding is important, however, and I encourage the students to consult other books and media for this type of material. The textbook **Conceptual Physics** by Paul Hewitt is an excellent resource in this respect. Also, videos of *Hewitt's lectures* and of the *Mechanical Universe Series* can be helpful as well. The Hewitt videos are available for viewing in the Physics Tutoring Room, and I am working on making the Mechanical Universe Series available.

#### Rules:

Attendance is expected.

The deadline for homework is the beginning of class (8 AM).

Be prepared to show your student ID or Driver's License on Exam days.

Date			Material
January	17	Introduction	Chap 21
	19		Chap 22
	24		Chap 23
	26	Quiz	Chap 24
	31		Chap 24, Chap 25
February	2	Quiz	Chap 25
	7		Chap 26
	9	Quiz	Chap 26, Chap 27
	14		Chap 27
	16	Quiz	Chap 28
	21	EXAM	Covers Chapters 21-27
	23		Chap 28
	27	Drop Deadline	
	28		Chap 29
March	2		Chap 29
	7		Chap 30
	9	Quiz	Chap 30
	14	SPRING BREAK	
	16	SPRING BREAK	
	21		Chap 31
	23	Quiz	Chap 31
	28		Chap 32
	30	Quiz	Chap 32
April	4		Chap 33
	6	Quiz	Chap 33
	11		Chap 34
	13	EXAM	Covers Chapters 28-33
	18		Chap 34
	20	Quiz	Chap 35
	25		Chap 35
	27	Quiz	Chap 36
May	2		Chap 36
	4		Review
		FINAL EXAM	Comprehensive

Schedule (This is subject to change)

We will attempt to have review sessions outside of class before each of the three exams.